Custom Location Extension

User Guide

Version 1.7.0

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Chapter 1

Overview

Topics:

- *What is the Custom Location Extension?*
- *Why use the Custom Location Extension?*

This user guide introduces the Custom Location Extension administrator web interface, explains essential concepts, and describes the common use cases.

What is the Custom Location Extension?

HERE Custom Location Extension is a service that stores and retrieves custom locations. Upload locations as CSV files or ESRI standard compliant shapes via an *administration website* or as XML files via HTTP POST requests to the RESTful API. Retrieve locations by making HTTP GET requests to the RESTful API. This document provides information about the *administration website*. To learn more about how to retrieve and upload locations using the API, see the Custom Location Extension Developer's Guide.

Why use the Custom Location Extension?

Custom Location Extension provides solutions for the following high level use cases.

- Store custom sets of locations and polygons, for use with other HERE APIs.
- Perform a proximity search for custom points of interest and polygons around a specified location.
- Retrieve a set of custom points of interest (POIs) and/or polygons within a specified bounding box.
- Find all custom locations and polygons within an isoline route result.
- Find all custom locations and/or polygons within a specified radius of a defined route.
- Search custom indices generated from multiple fields from one or more layers.

This document describes the functionality available in the *administration website*, including the ability to:

- create a new user or search for an existing user
- import and manage locations
- manage layers in the system
- import geometries, also known as shapes or polygons, for maps
- create and manage custom search indices

Chapter 2

Using Custom Location Extension

Topics:

- *Acquiring Credentials*
- *Login to the Custom Location Extension Administration Website*
- *User Administration*
- *Layer Administration*
- *Custom Search Index Administration*
- *Location Administration*
- *Geometry Administration*

The following sections describe how to create and manage new users, layers, locations, shapes and custom search indices.

Acquiring Credentials

All users of HERE APIs must obtain authentication and authorization credentials and provide them as values for the parameters `app_id` and `app_code`. The credentials are assigned per application.

To access the *administration website*, you need a username and a password. The administration website has two addresses:

- Production environment address: https://customlocation.here.com/admin
- Staging environment address: https://stg.customlocation.nokia.com/admin

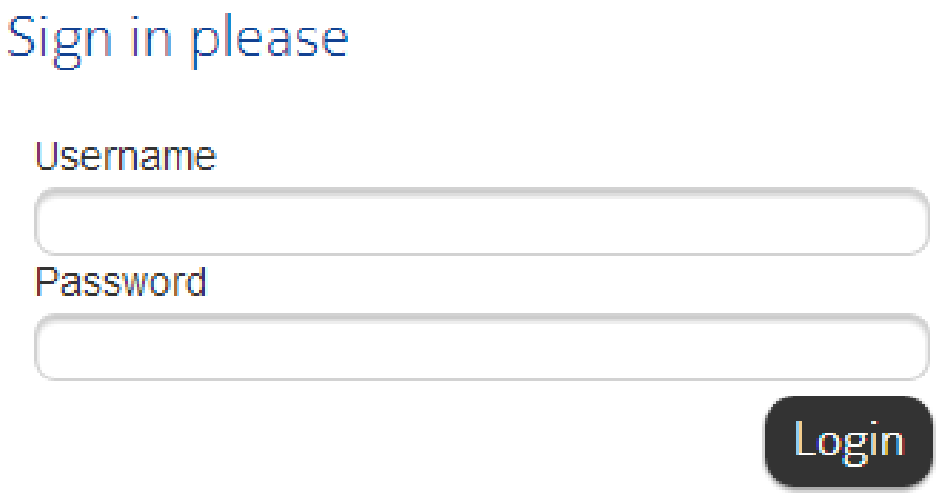
To obtain the credentials for an application or for the adminstration website, contact your HERE representative or HERE Technical Customer Support, as described in *Service Support* on page 32.

Login to the Custom Location Extension Administration Website

To begin using the administration website, open a web browser and navigate to either the production or the staging URL, as shown below.

Production environment login page	`https://customlocation.here.com/admin`
Staging environment login page	`https://stg.customlocation.nokia.com/admin`

In the signin prompt, enter your user credentials and click the `Login` button.



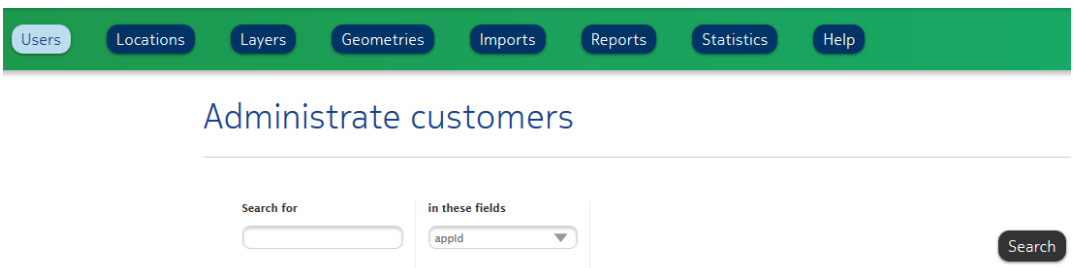
User Administration

The *administration website* allows you to create, manage, search and disable custom location data users.

Create a New User

To create a new user, click on the `Users` button in the main menu of the *administration website*.

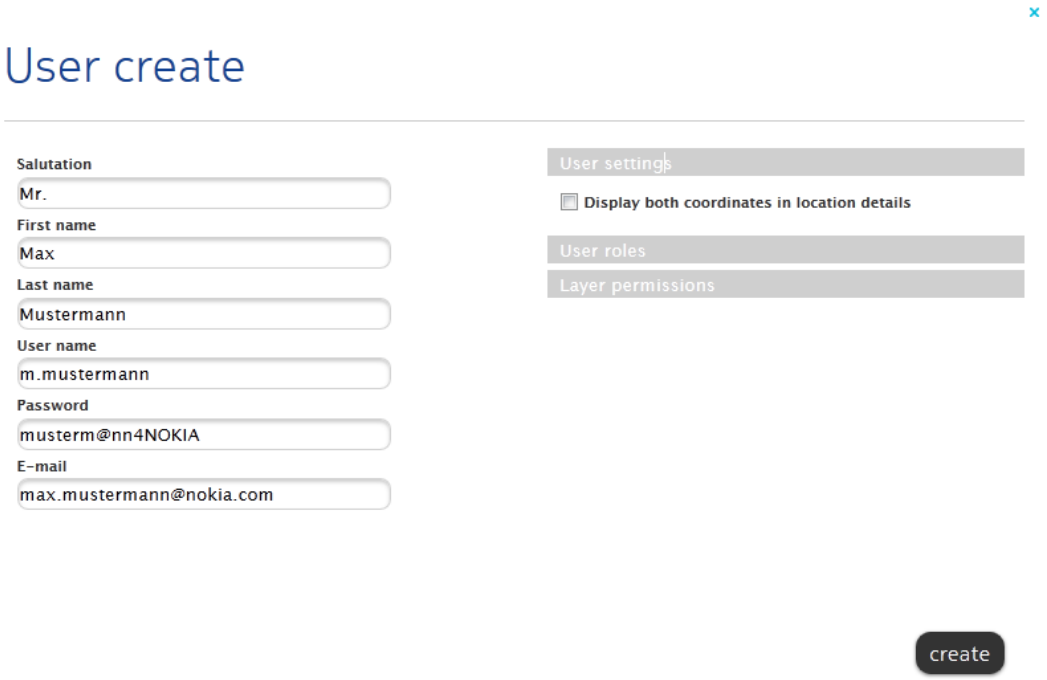
Figure 1: Create a New User



On the Administrate users screen, click on the `Create user` button to display a pop-up window with the user details.

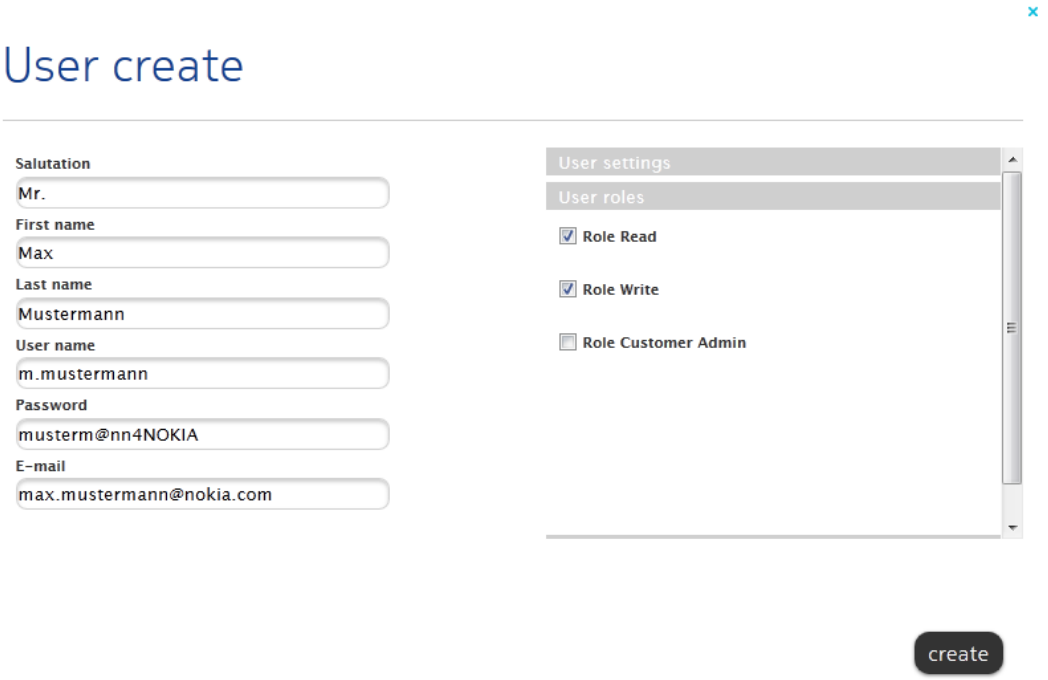
In the `User create` pop-up window, fill in the basic information for the new user. At a minimum, you must include a username and a password that contains at least 8 characters and one each of uppercase, lower, and special characters.

Figure 2: User Create Pop-Up Window



In the `User settings` area, check `Display both coordinates in location details` to show display and route coordinates, used for navigation to the location, for the user. When this checkbox is disabled, Custom Location Extension only uses the display coordinates.

Figure 3: Set Permission Roles for New User

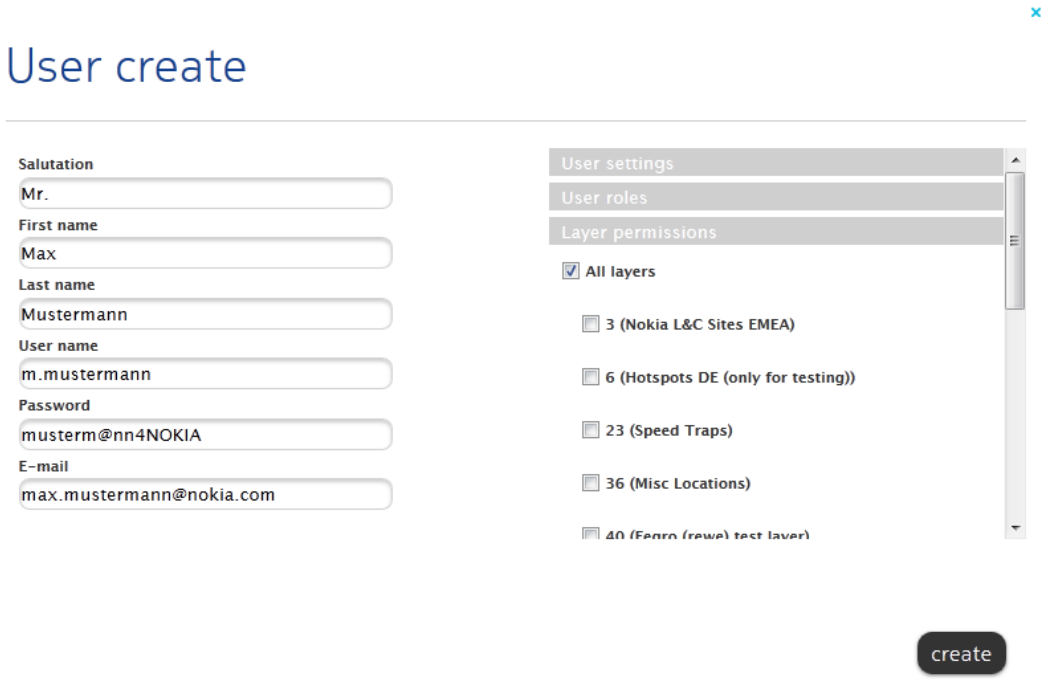


In the `User roles` area, enable any of the following permission roles by selecting the appropriate checkbox:

Read:	Enables the user to view locations and their attributes in the *administration website*. This option is enabled by default.
Write:	Allows the user to write, change and delete locations and their attributes via the web interface.
Customer Admin:	Grants the user administrative rights for a specific customer. This allows the user to view, create, change, and disable both locations and users for that customer. The first user account created for a specific customer should get this permission role.

Finally, specify which layers the user can see or edit. If you do not see any layers in this menu, you must create a layer for this customer first. To create a layer, see *Layer Administration* on page 13.

Figure 4: Set Layer Permissions for a New User



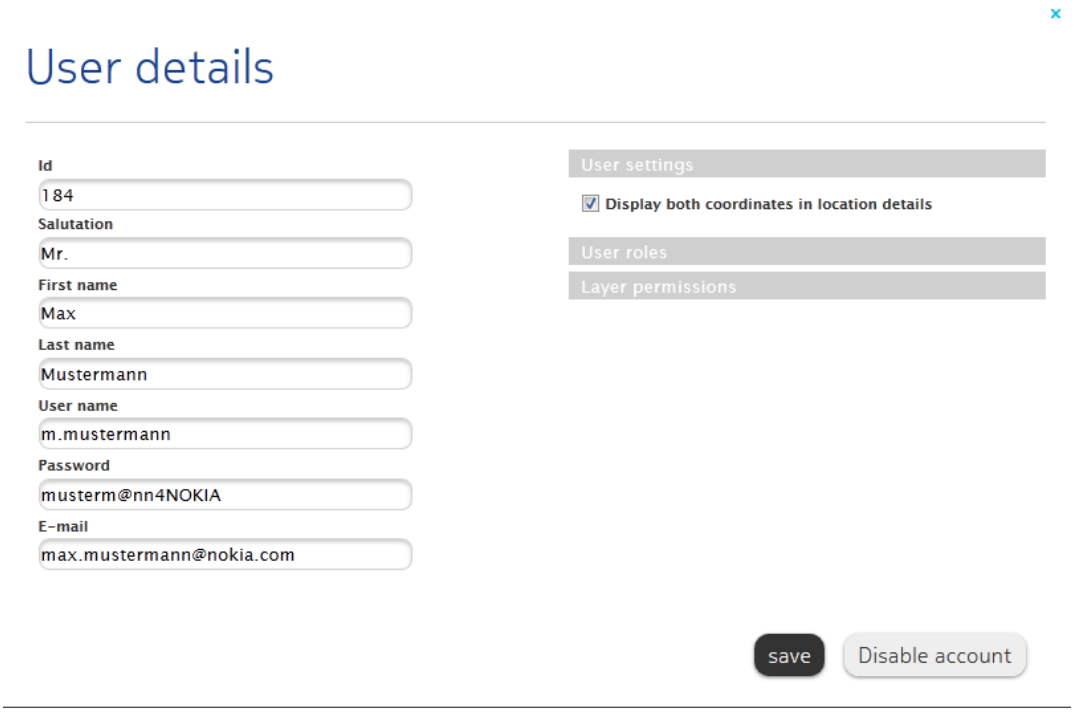
Once you have finished defining the user settings, click the `Create` button to save this user.

Edit or Disable an Existing User

To edit an existing user, access the *administration website*. From the home screen, click on the `Users` button. Click directly on the user that you wish to edit to display the User Details pop-up window. In

this window, make changes as needed and click `save` to modify the user or `Disable account` to inactivate that user's account.

Figure 5: User Details Pop-Up Window



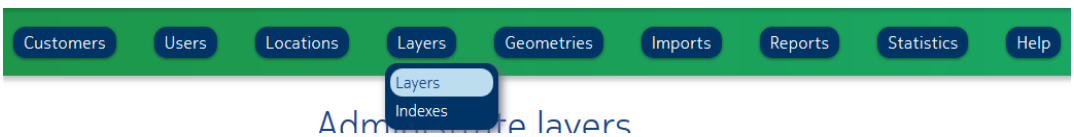
Layer Administration

The web platform for Custom Location Extension allows you to create and manage location layers. Layers typically represent a location type, and by associating custom locations with a layer, you can enable or disable their display in an application.

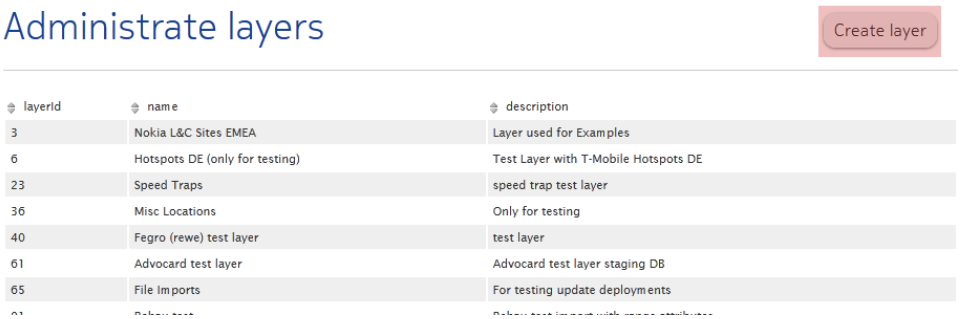
Create a New Layer

To create a new layer, click on the `Layers` button in the main menu of the *administration website* and select `Layers`.

Figure 6: Layers Screen



On the Administrate layers screen, click on the `Create layer` button to display a pop-up window to add a new layer.



Fill in the new layer name and description, and click the `Create` button.

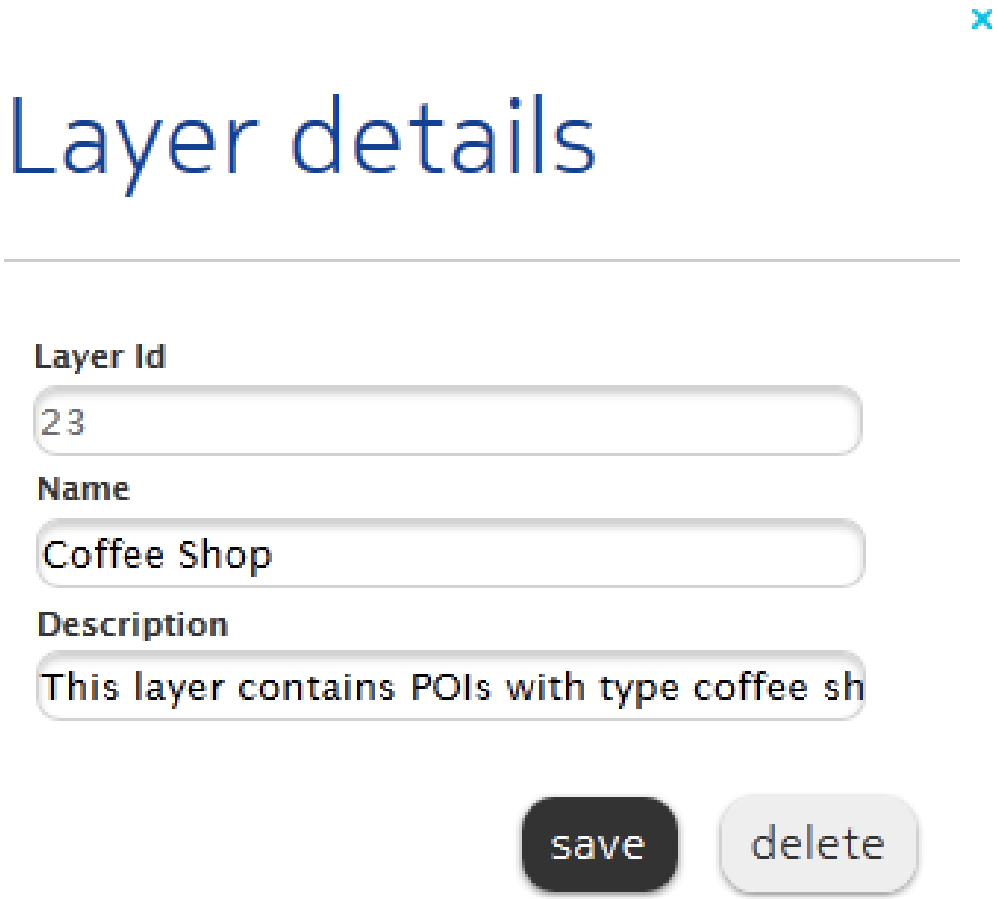
The layer is now available in the Administrate layers menu and can be now be assigned to a user of this customer. To change the layer name and description, click the layer in the Administrate layers menu.

Edit or Delete an Existing Layer

To edit an existing layer, access the *administration website*. From the home screen, click on the `Layers` button and select `Layers`. Click directly on the layer that you wish to edit to display the Layer details pop-up window. In this window, make changes as needed and click `save` to modify the layer or `delete` to delete it. The website displays a confirmation prompt for layer deletion. You must

accept the confirmation for the system to remove a layer from the database. When you delete a layer, all the related items are deleted. You need to reimport the data to restore the layer.

Figure 7: Layer Details Pop-Up Window



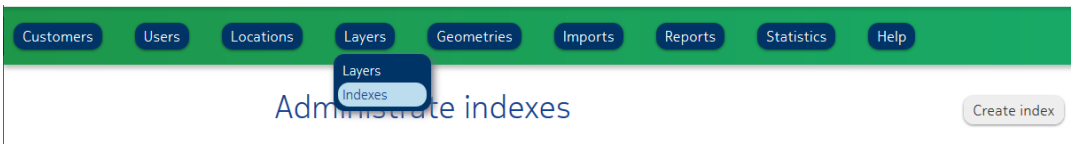
Custom Search Index Administration

The web platform for Custom Location Extension allows you to create and manage custom search indices. A custom search index typically represents one or more fields from one or more layers.

Create a Custom Search Index

To create a new custom search index, click on the `Layers` button in the main menu of the *administration website* and select `Indexes`.

Figure 8: Layers Screen



On the Administrate indexes screen, click on the `Create index` button to display a pop-up window to add a new layer.

Fill in a name, application ID and description. The name and description entries can only be 20 characters long. Select the layers and fields to be indexed from the drop-down boxes and click the `Create` button.

Note: The application ID (app_id) you enter here must be the same as that used when performing a search from an application and it must be one that is associated with your user account.

The custom search index is now available in the Administrate indexes menu. To change the index ID, application ID, name and description, click an index in the Administrate indexes menu.

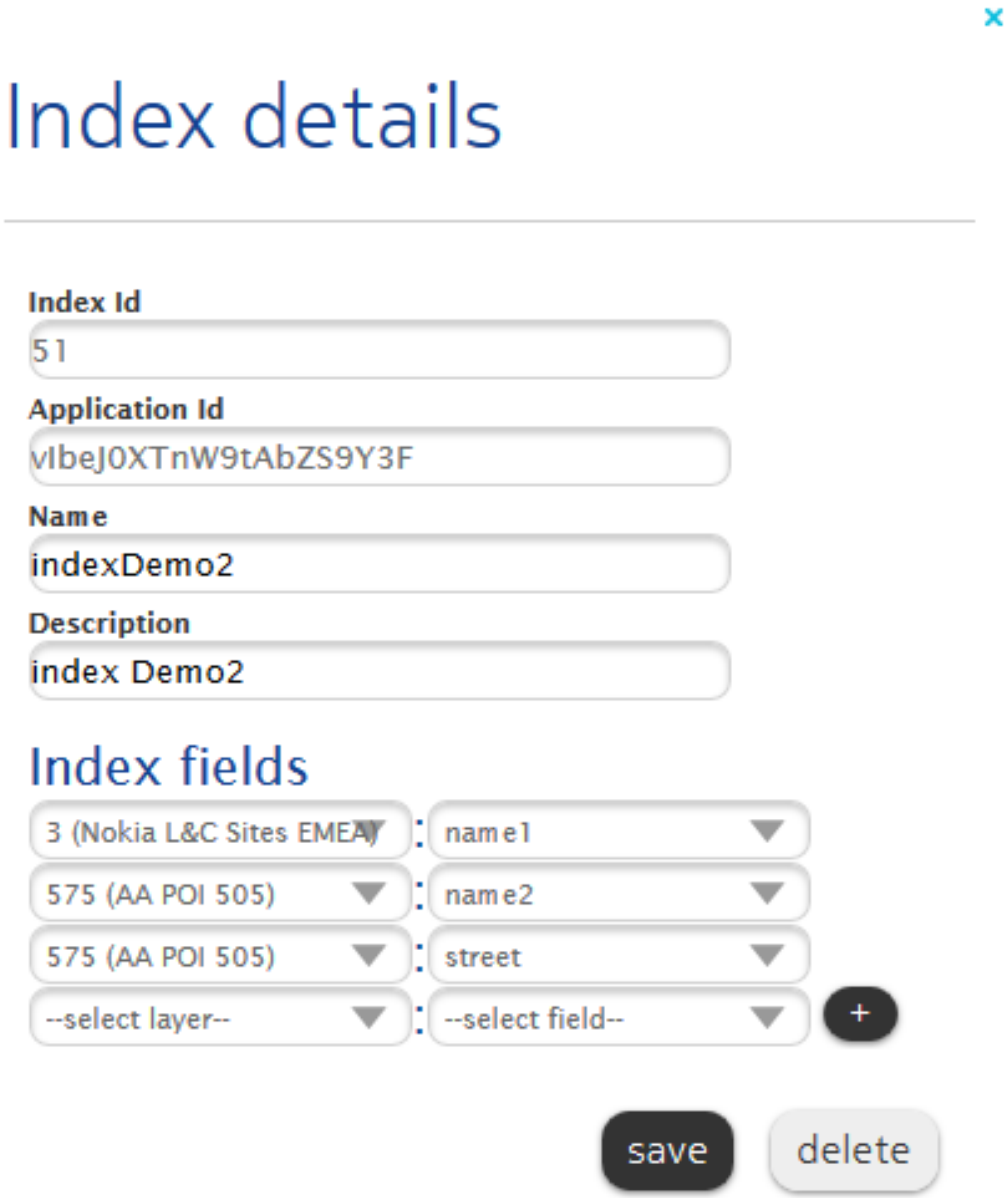
When you create a custom search index, the Custom Location Extension may take some time to finish generating the required index. If a request to a new custom searh index produces an error message saying that the index is not accessible, the index generation may still be on-going.

Edit or Delete an Existing Custom Search Index

To edit an existing custom search index, access the *administration website*. From the home screen, click on the `Layers` button and select `Indexes`. Click directly on the index that you wish to edit to display the Index details pop-up window. In this window, make changes as needed and click `save`

to modify the layer or `delete` to delete it. The website displays a confirmation prompt for index deletion. You must accept the confirmation for the system to remove an index from the database.

Figure 9: Index Details Pop-Up Window



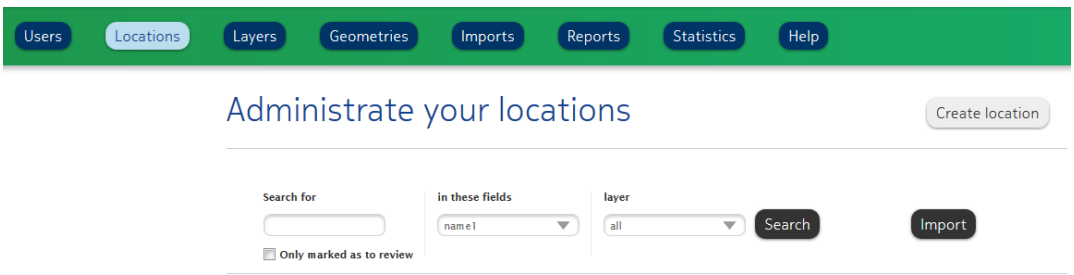
Location Administration

The *administration website* allows you to create and manage custom locations (POIs) on the Locations page. Locations can be imported, created, and managed.

Create or Upload Locations

To import custom locations from a CSV file or to create new locations in the adminstration website, click the Locations button in the *administration website*.

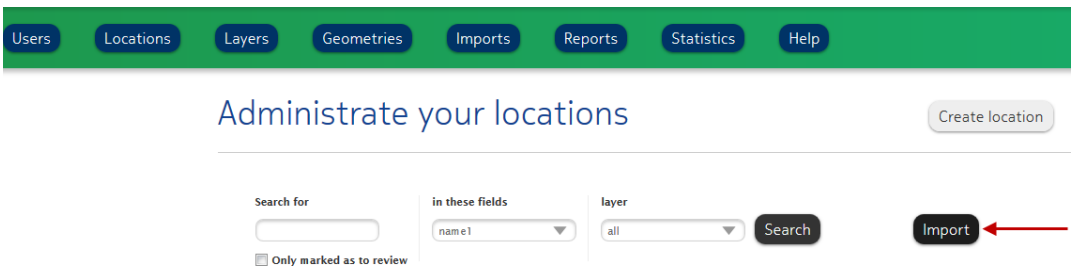
Figure 10: Location Administration



Import Locations

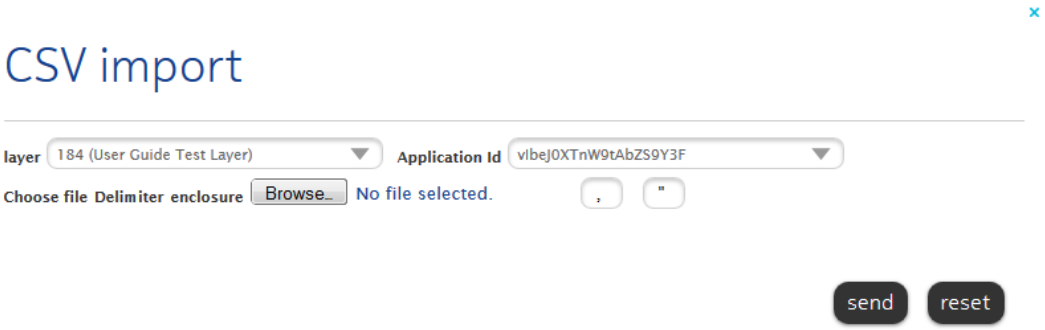
To import locations from a CSV file, click the `Import` button.

Figure 11: Import Button



In the CSV import pop-up window, select the layer into which you want to upload the locations, your CSV file, and your correct Application ID (app_id). You can also edit the delimiter and enclosure types for your file.

Figure 12: CSV Import Window



Click the send button to upload your file.

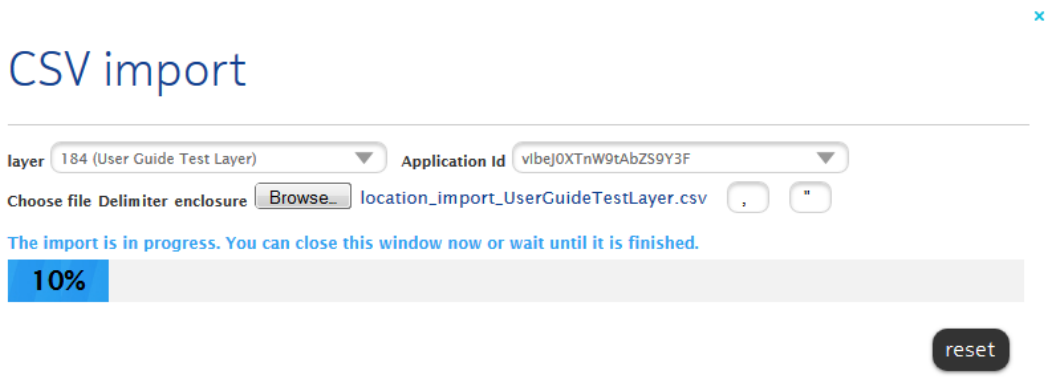
In the CSV import column assignment pop-up window, assign the columns in your CSV file to the appropriate columns in Custom Location Extension.

The following list describes the available columns:

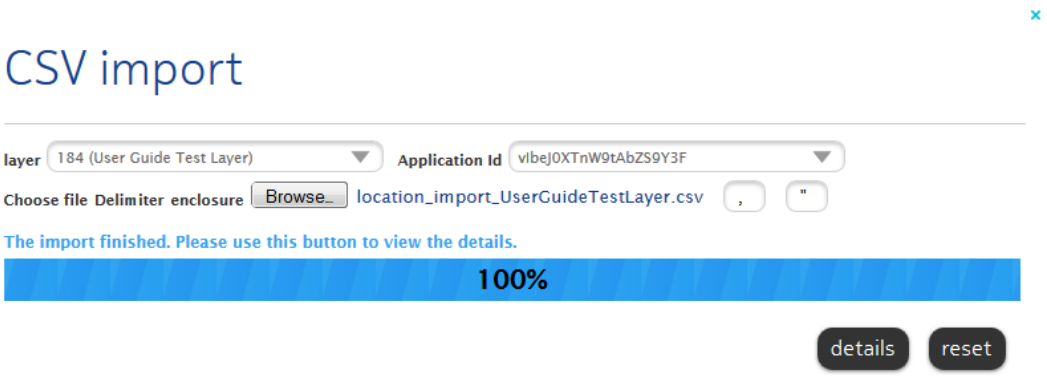
CITY	*Required.* The city where the location exists.
COUNTRY (ISO 3166)	*Required.* The country where the location exists, specified by 3-digit country code. For example, use code DEU for Germany.
COUNTY	The county where the location exists.
CUST LOCATION ID	*Required.* A unique ID specifying the location in your system or database.
DESCRIPTION	A description of the location.
DISPLAY LAT (Y)	The latitude at which to display the location marker, bound to the location address.
DISPLAY LON (X)	The longitude at which to display the location marker, bound to the location address.
EMAIL ADDRESS	Email address associated with the location.
FAX NUMBER	Fax number associated with the location.
HOUSE NUMBER	Address number of the location.

ICON URL	URL of the logo file for the location, must be a valid address beginning with `http://`, `https://`, or `ftp://`.
**** ignore this field ****	This indicates that the column will be ignored during the import process.
LATITUDE (Y)	The latitude of the location.
LONGITUDE (X)	The longitude of the location.
NAME1	*Required.* Name of the location.
NAME2	Alternate name of the location, can be used to indicate the name in another language.
NAME3	Alternate name of the location, can be used to indicate the name in another language.
NAVIGATION LAT (Y)	The latitude to which a user should be navigated for the location entrance.
NAVIGATION LON (X)	The longitude to which a user should be navigated for the location entrance.
PHONE NUMBER	Phone number for the location.
POSTALCODE	Postal code for the location.
STATE	State in which the location exists.
STREET NAME	Name of the street on which the location exists.
WEB URL	Web address of the location, must be a valid address beginning with `http://`, `https://`, or `ftp://`.

Click the send button to begin importing. The Custom Location Extension adds your new locations as specified, and displays a progress bar while the import is in progress.



The CSV import finished page appears when the import is complete.

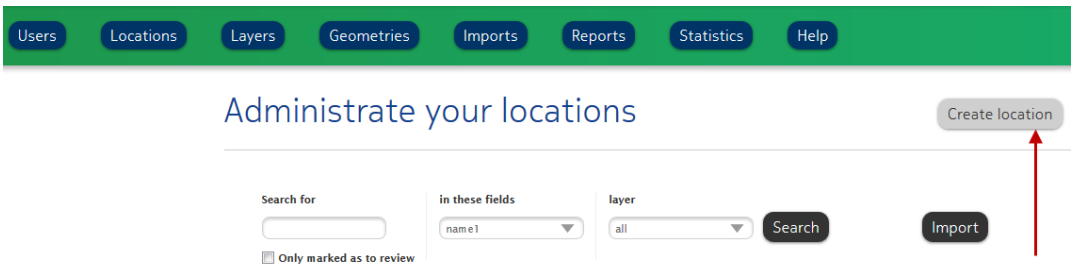


Click the `details` button to see additional information about the import and to download the upload information.

Create Locations

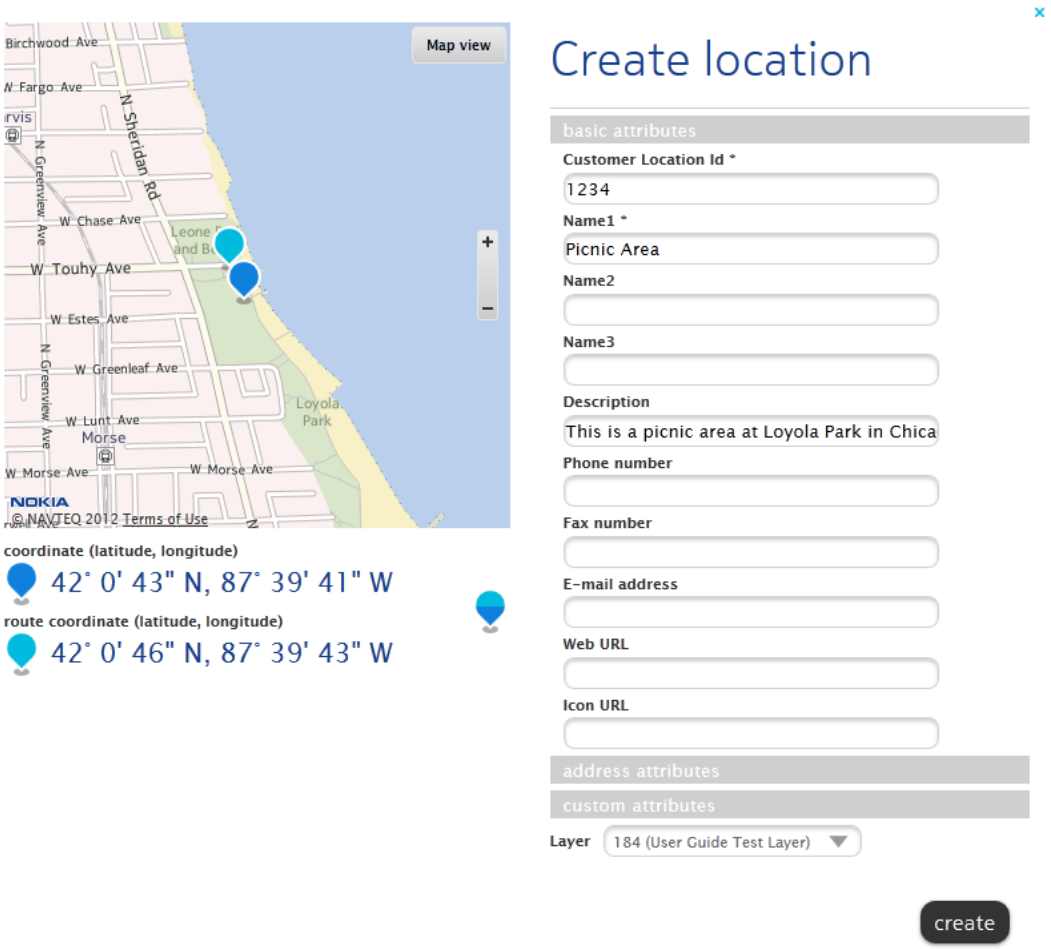
To create a new location using the administration website, click the `Create location` button.

Figure 13: Create Locations Button



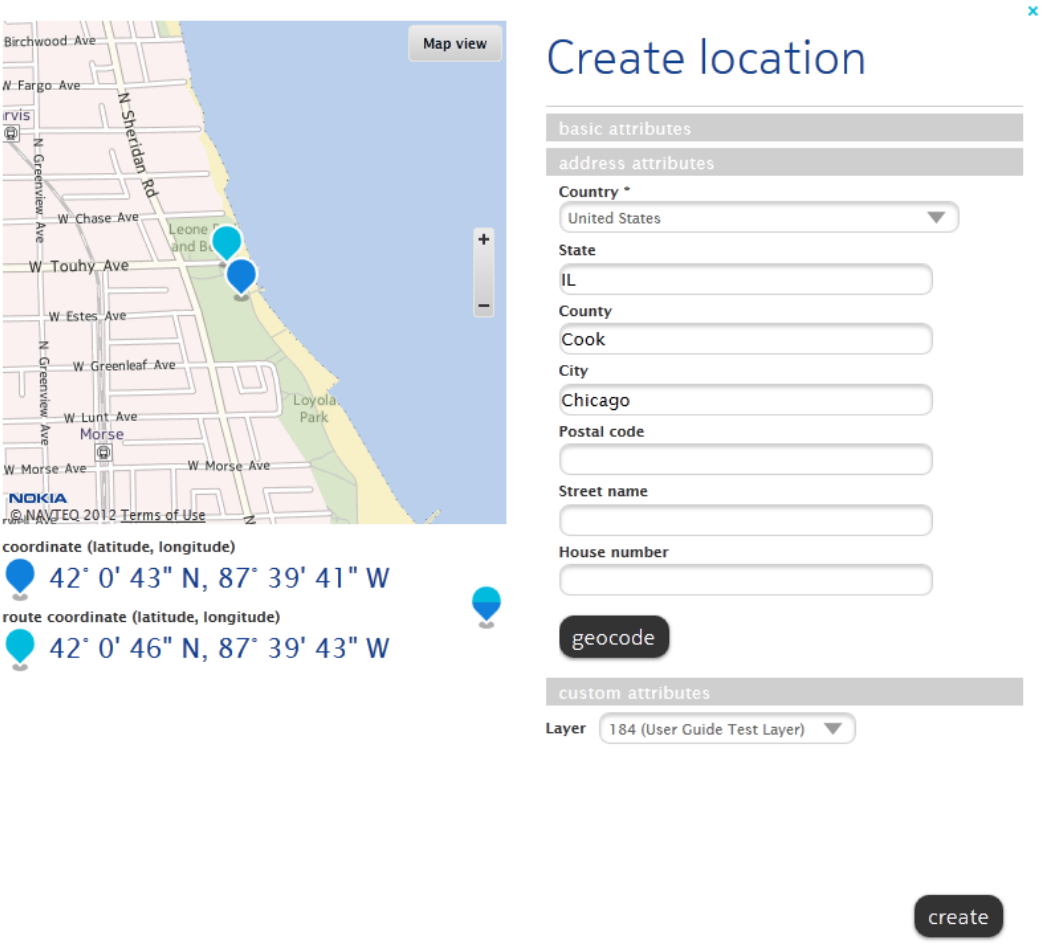
On the Create location pop-up window, enter the basic, address, and custom attributes of the new location, as shown below.

Figure 14: Basic Attributes



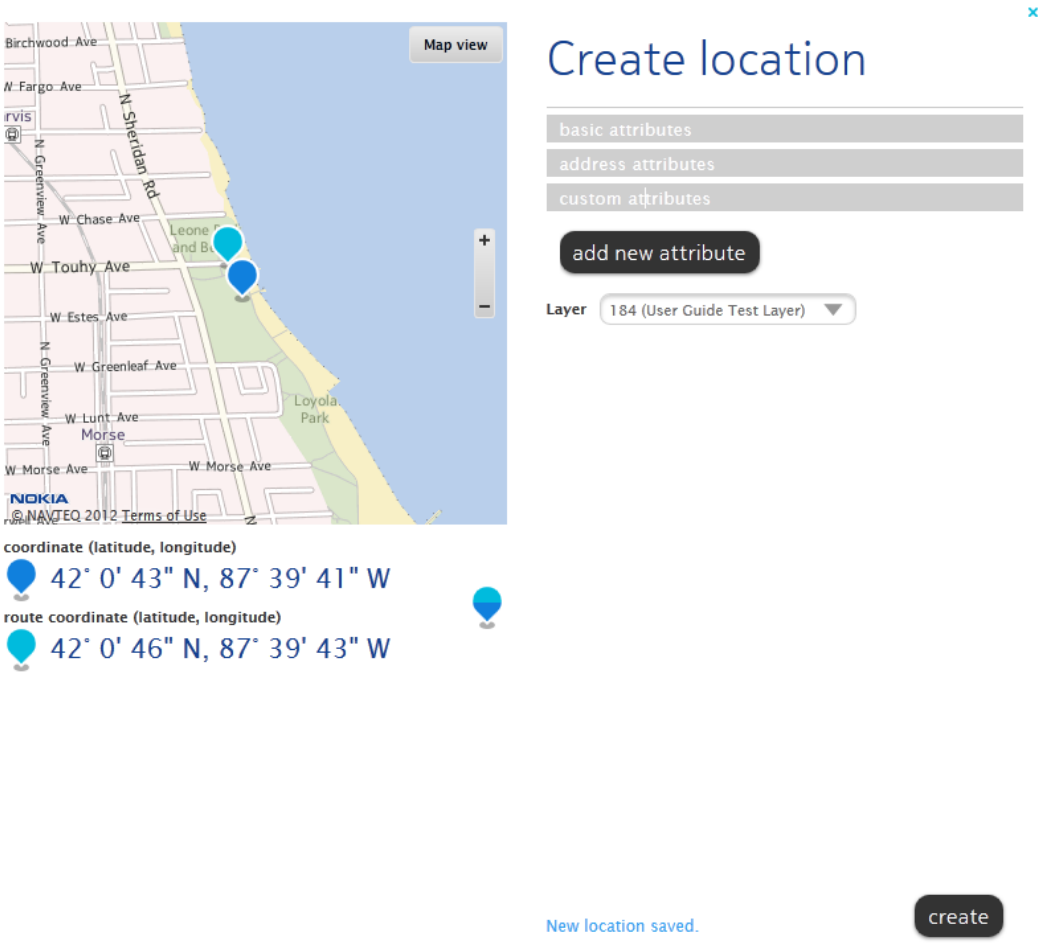
When you have completed the address information details, click the geocode button to display the location on the map. You can drag and drop the location markers to edit the precise location of either the display or the navigation coordinates.

Figure 15: Geocode Button



In the custom attributes area, choose the layer to which the location belongs. You can also click the `add new attribute` button to add new attribute and value pairs to provide additional information about the location. You can add up to 50 custom attributes per location.

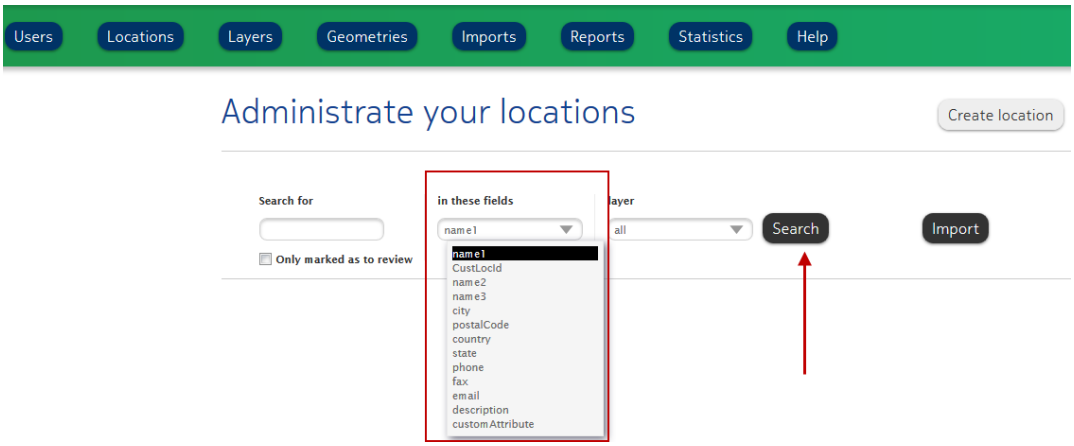
Figure 16: Create Button



Click the `create` button to save your new location.

Searching for Existing Locations

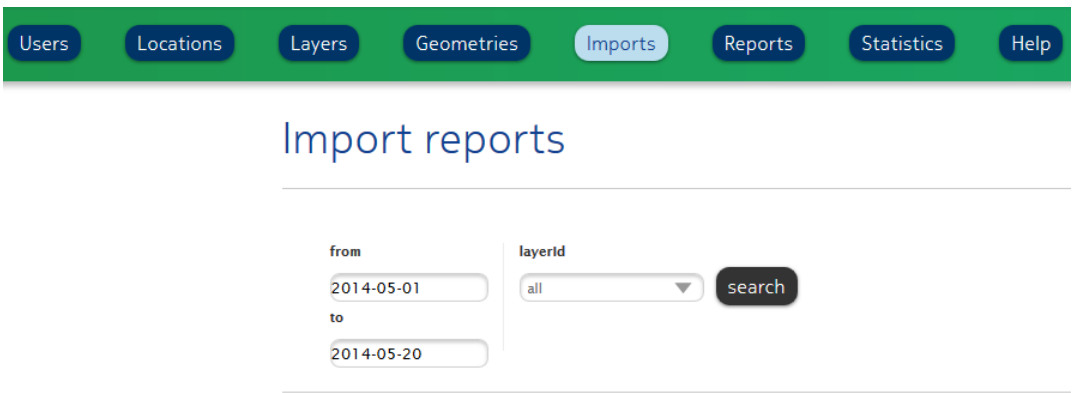
If there are already locations in this layer, you can search and display them by clicking the `Search` button. You can refine the search criteria by selecting a field in the database.



Generating Location Import Reports

You can generate reports listing all attempted location imports within a specified timeframe by clicking on the `Imports` button in the main menu.

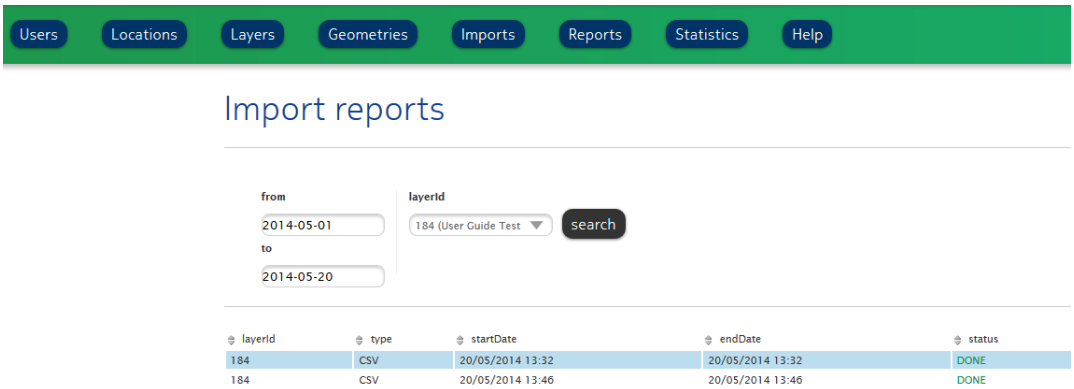
Figure 17: Location Imports Reports Screen



On the `Imports` screen, choose the timeframe and the layer for your report and click the `search` button.

The `Import reports` search results page appears.

Figure 18: Location Import Reports Search Results

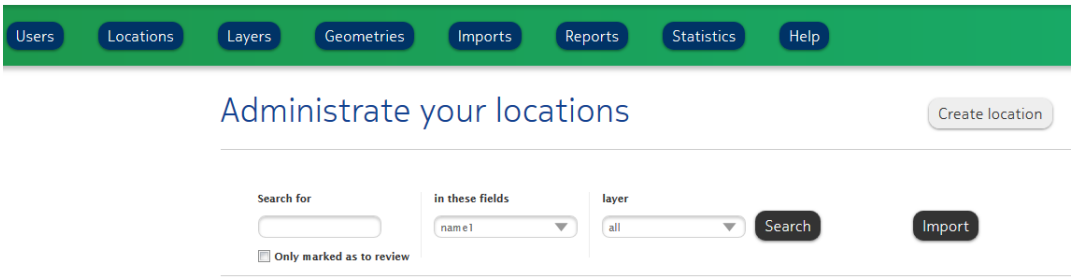


Select a report to view details about the location import and to download the upload information.

Edit or Delete Locations

To administrate custom locations, select the `Locations` button in the administration website, choose the layer to which they belong from the dropdown list, and enter any relevant criteria in the search fields. Click the `Search` button to display the relevant locations.

Figure 19: Administrate your locations

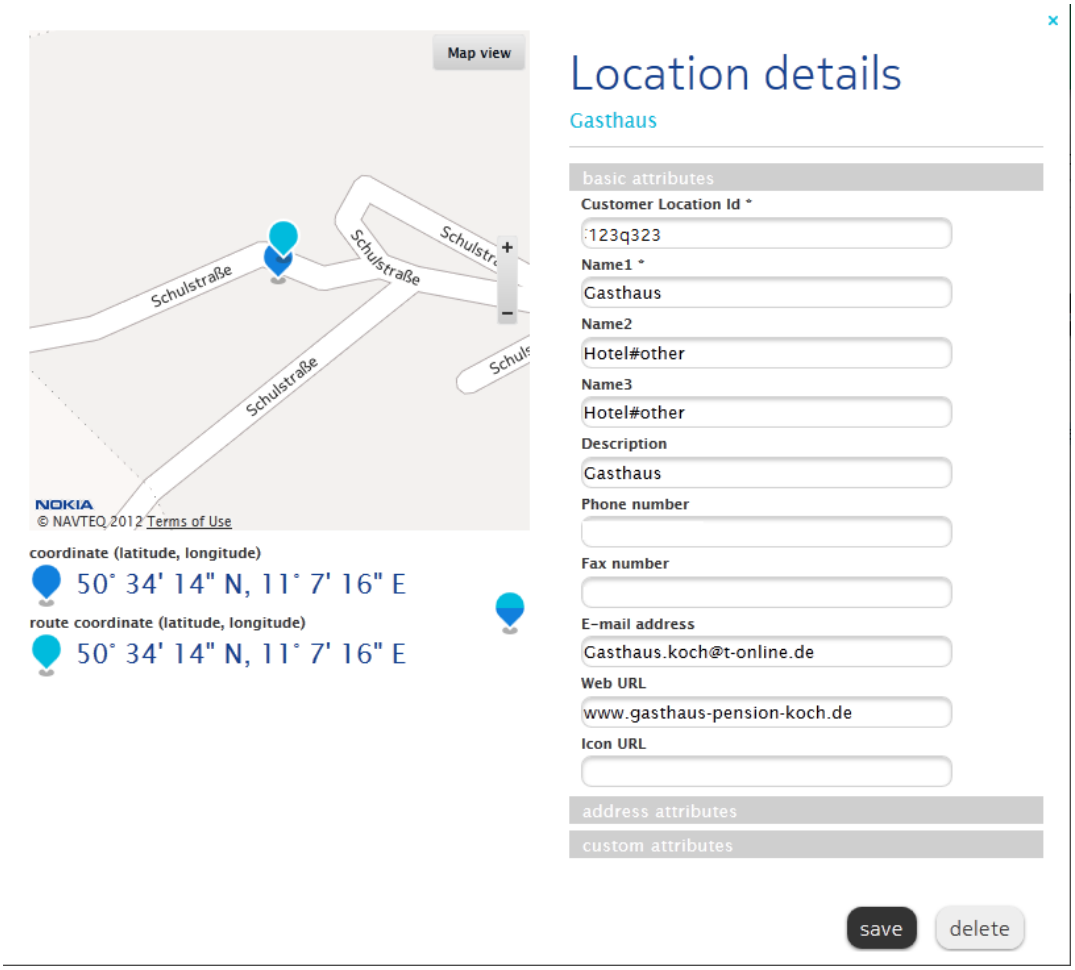


Edit a Location

Click on the location you wish to edit, and modify information in the `Location details` pop-up window. You can modify information in the form fields, or move the location on the map manually by moving the map marker.

Note: There are two different coordinate markers available, one for the display coordinates, which are bound to the address of the location, another marker for the route coordinates, which represent those you can navigate to by car.

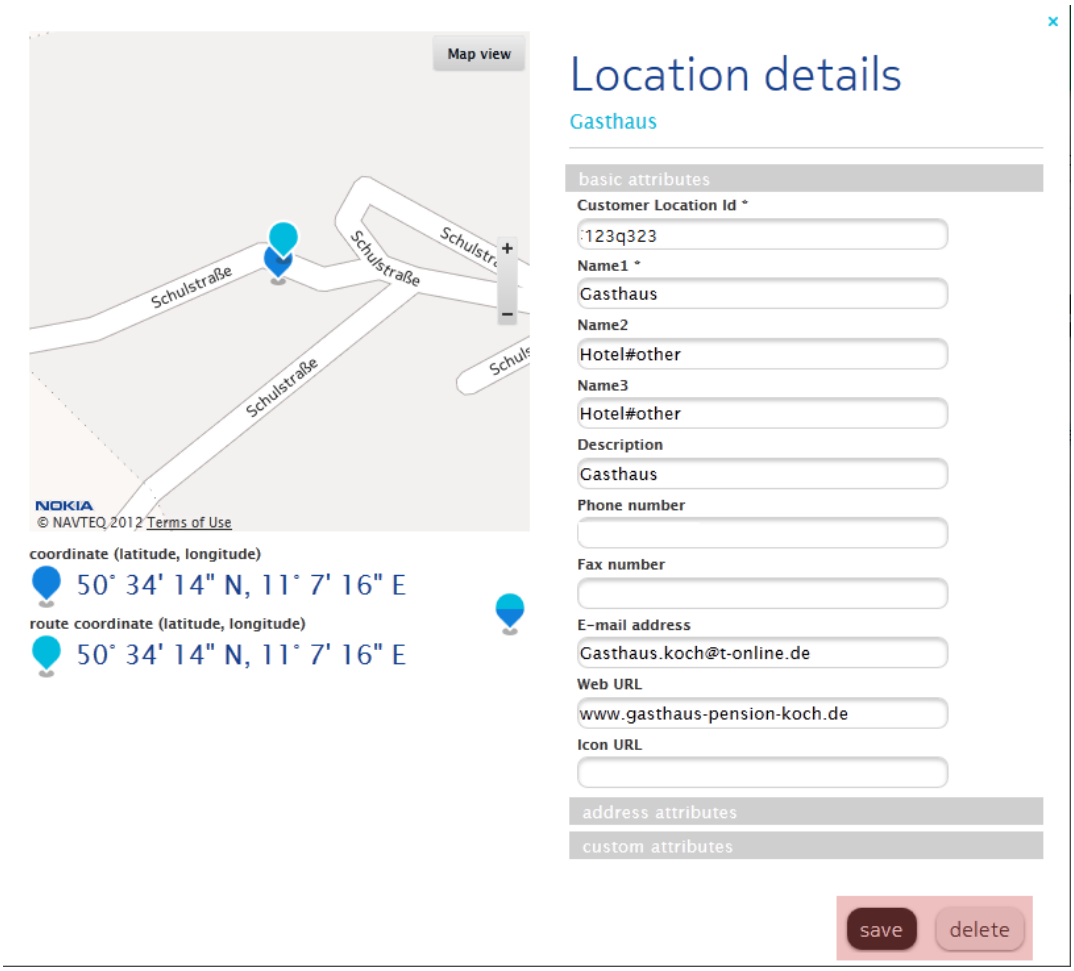
Figure 20: Location Details Window



After you have finished modifying the location, click the `save` button to confirm your changes.

Delete a Location

You can delete a location by clicking the `delete` button on the `Location details` window. You must accept the confirmation prompt to remove the location.



Geometry Administration

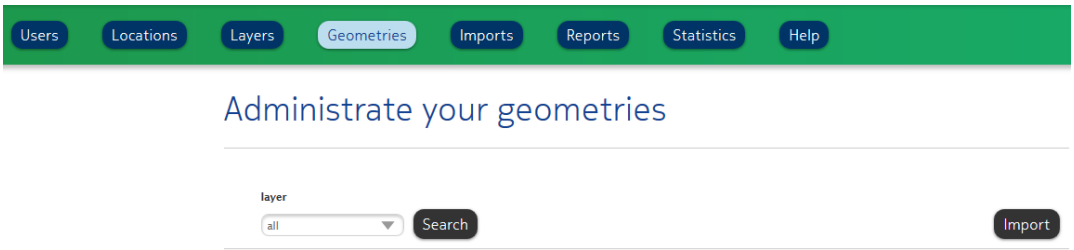
The web platform for Custom Location Extension allows you to import and manage geometries from zipped shapefiles.

Note: Custom Location Extension does not currently support the importation of point-based shapefiles.

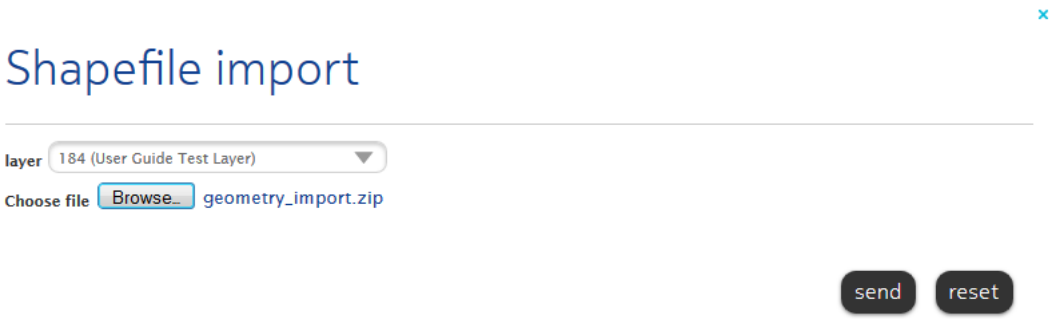
Create a New Layer

To import a set of geometries, click on the `Geometries` button in the main menu of the *administration website*.

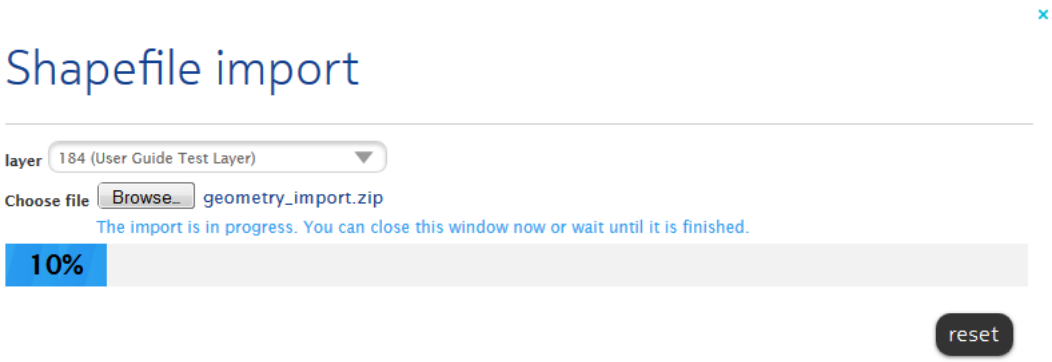
Figure 21: Geometries Screen



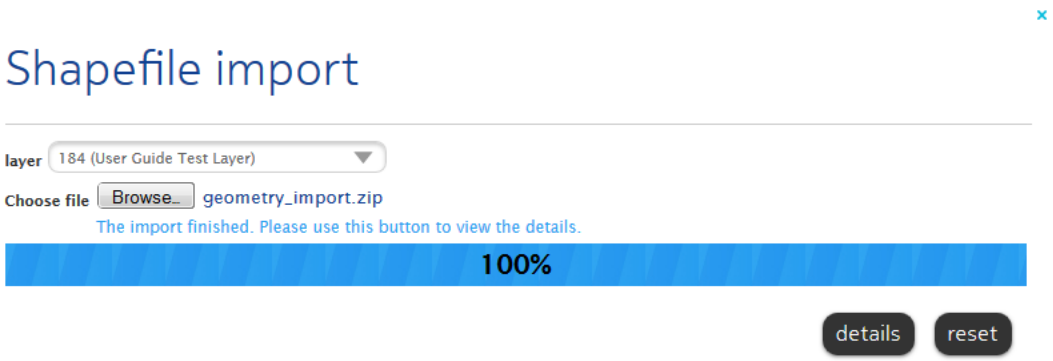
On the Administrate your geometries screen, click `Import` to import your shapefile. Custom Location Extension expects the imported file to be in `.zip` format and to comply with the esri standard (any shape such as PolyLine, Polygon, and MultiPolygon is accepted as a point in the system).



Click the `send` button to begin importing. The Custom Location Extension adds your new geometries as specified, and displays a progress bar while the import is in progress.



The Shapefile import finished page appears when the import is complete.

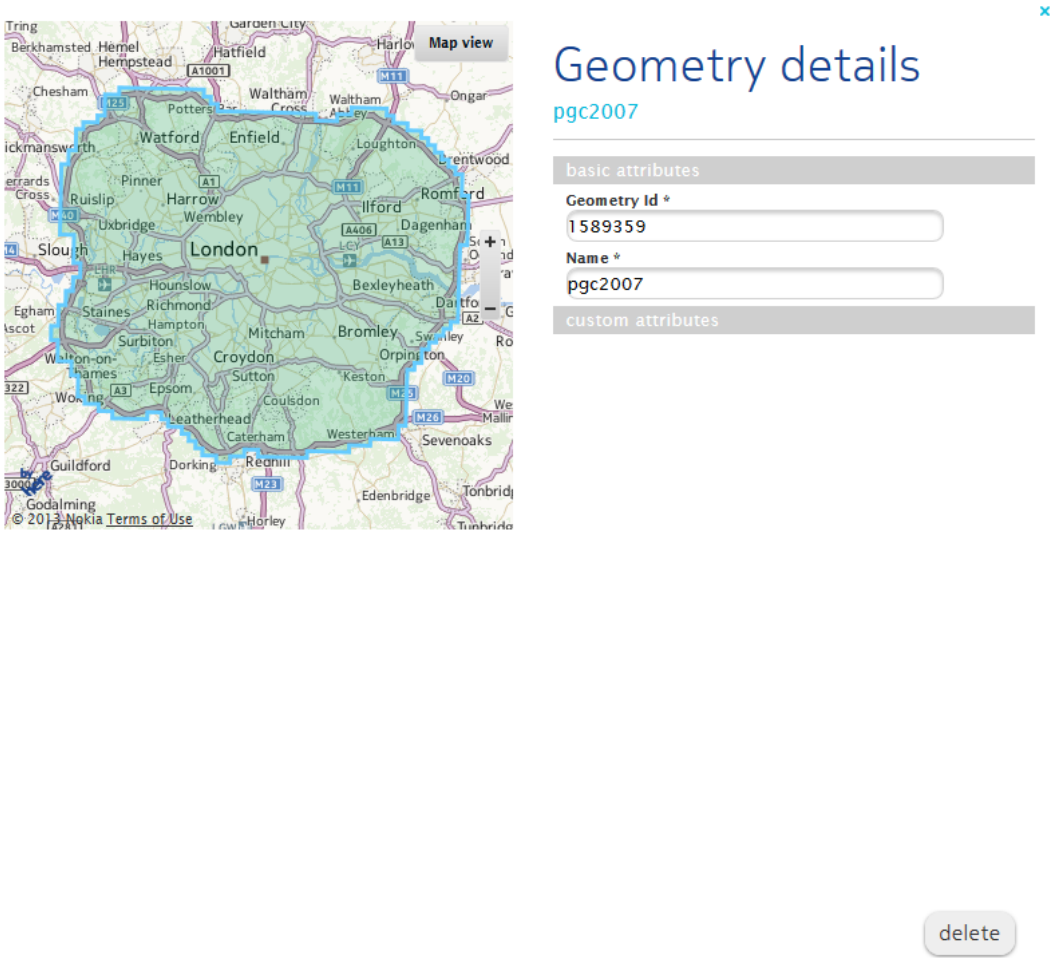


Click the `details` button to see additional information about the import and to download the upload information.

The geometry/geometries are now available in Custom Location Extension.

Delete an Existing Geometry

To delete an existing geometry, access the *administration website*. From the home screen, click on the `Geometry` button. Click directly on the geometry that you wish to delete to display the Geometry details pop-up window.



Click delete to delete it. The website displays a confirmation prompt for layer deletion. You must accept the confirmation for the system to remove a layer from the database.

Chapter 3

Service Support

If you need assistance in using the *administration website*, contact your HERE representative or Technical Customer Support via email at *tcsplatform@here.com*.